


**Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.**

 A transmission diversity detection system that detects the presence or absence of a STTD transmission diversity by a simple arithmetic operation. The transmission diversity detection circuit notifies presence or absence of a transmission diversity of spread spectrum communication by modulation of a synchronization channel (SCH). The transmission diversity detection circuit includes arithmetic circuit for calculating a calculated value of  $C_{2n,0} \times S_{2n,0}^* + C_{2n,0}^* \times S_{2n,0} + C_{2n,1}^* \times C_{2n,1}$ , in first and second symbols in a predetermined number of series of slots with respect to a reception signal, taking a primary common pilot channel (CPICH) symbol with respect to the first symbol as  $C_{2n,0}$ , a SCH symbol with respect to the first symbol as  $S_{2n,0}$ , and a primary CPICH symbol with respect to the second symbol as  $C_{2n,1}$ , taking a complex conjugate of the primary CPICH symbol  $C_{2n,0}$  as  $C_{2n,0}^*$ , a complex conjugate of SCH symbol  $S_{2n,0}$  as  $S_{2n,0}^*$ , and a complex conjugate of the primary CPICH symbol  $C_{2n,1}$  as  $C_{2n,1}^*$  and judgment circuit for making judgment whether transmission diversity is present or not depending upon positive or negative of the calculated value.